PARAMETER TITLE: Source Specific Encapsulated Microbial Density $\left(d_{V}^{i}(0)\right)$

VALUE			APPLICATION	
UPPER		MISS	SION	All
ACCEPTABLE	See Below	CAT	EGORY	III, IV
LOWER		PLAI	NET	All
PARAMETER DEF	subassembly or	component of vol	of a space ume or are	nside the i th craft. The number can a according to the
APPLICABLE SOURCE: Non-metallic materials on the spacecraft.				
CONSTRAINTS:	Source-specific density values can be used only if applied to the entire volume of spacecraft non-metallic material without resorting to the average density value, $d_V(0)$, for any portion thereof. Values for this parameter must be derived for all applicable sources. Values are selected from the following categories and ranges depending upon the composition of, and manufacturing process for, each designated source:			
	Encapsulated Organisms in:			$d_{V}^{i}(0)$
	Electronic piece parts Other non-metallic materials		3-150/cm ³ 1-30/cm ³	
	Enclosed surface densities	osed surface densities:		
Clean room-highly controlled Clean room-normal control Uncontrolled manufacturing			0.05-0.5cm ² 0.5-10/cm ² 10-100/cm ²	
In the use of this parameter a rationale shall be presented for the selection of values less than the maximum of the applicable range specified. This value was derived assuming the subsequent use of heat sterilization. If processes are proposed that do not include heat for a Category IV mission, the value must be reassessed to assure its applicability for the proposed usage. It may be used without restriction for Category III mission burden estimates.				
REFERENCES:	PQAP Review, September 2	28, 1971, De	enver, Colo	orado.
Planetary Protection	on Officer			Date